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Patent App. Ser. No. 10/786,494 The Eclipse Group Docket No. HI08025USU (P03138US)

## AMENDMENTS TO THE CLAIMS

Please amend the claims as follows:

1. (Currently Amended) Array microphone comprising:

several individual microphones connected with to a signal processor-(11) that comprises at least one digital filter for each individual microphone, in particular for voice recognition;[5]

wherein at least one loudspeaker is arranged in an acquisition range of each of the individual microphones; [7]

an electronic circuit <u>configured to apply applies</u> a signal to the loudspeaker (5) in such a manner that it emits to emit a predetermined periodic noise signal:[7]

and that the signal processor-(11) configured to evaluate[s] the response signals coming from each of the microphones and/or from each of the digital filters as a response to the reception of the periodic noise signal;[5] and wherein the signal processor is configured to compare the response signals with model signals stored in the signal processor or externally.

2. (Currently Amended) A method for checking array microphones, the method comprising; connecting several individual microphones with a signal processor (11):[5] providing wherein at least one loudspeaker (5) is provided in the acquisition range

of each of the individual microphones; and

providing connected with a signal processor (11) connected to the at least one loudspeaker and to to which each microphone is also connected;[-]

emitting and that the signal processor (11) emits a predetermined periodic noise signal via the loudspeaker:[5] wherein the signal processor (11) evaluates

evaluating at least one the response signals that subsequently come from each individual microphone (1-4) and/or from each of the digital filters;[5] and

comparing the at least one response signal compares them with at least one model signals stored in the signal processor (11) or externally, and which correspond to properly operating individual microphones (1-4) or properly operating filters;[5] and

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providing that the signal processor (11) provides a display in the form of a message and/or stores storing the comparison results deviation of the response signals from the model signals.

The method according to Claim 2, wherein the signal processor; 3. (Currently Amended) further comprising:

before emitting a predetermined periodic noise signal via the loudspeaker, verifying carries out a verification of the loudspeaker by applying (5), where the loudspeaker signal is directly applied to the AID converter (9) and operating the said loudspeaker is operated in parallel to the input impedance of the AID converter (9), and where the loudspeaker forming a voltage divider (5), together with the output resistance of the output amplifier that (7) which operates the loudspeaker; (5), forms a voltage divider, and that

recording the signal applied to the AID converter; (9) is recorded and evaluated evaluating the signal by comparing this signal with a reference signal that originates from the measurement with a reference impedance instead of the loudspeaker impedance.

4. (Currently Amended) A method Method according to Claim 3 further comprising: characterized in that verifying the ratio of the loudspeaker impedance to the input impedance of the AID converter; (9) is verified and;[;]

if it deviates too far from the value of 1, adding is adjusted by an additional preresistance, which is switched in front of the loudspeaker (5).

5. (Currently Amended) A method Method for the automatically calibrating calibration of array microphones, comprising having several individual microphones (1-4) connected to a signal processor having (11) that comprises at least one digital filter for each individual microphone, the method comprising:

whereby the signal processor (11) increases increasing the sound power concentration of the array microphone and suppressing suppresses lateral sound sources by means of applying an appropriate algorithm applied to the individual microphone signals, the algorithm components including whereby filter coefficient sets used in the digital filters and which are characteristic of for the arrangement, type, sensitivity, and

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characteristics of the used individual microphones (1-4):[5] the acoustical environment:[5] and the location of the sound sources are components of the algorithm;[5] characterized in that

providing at least one loudspeaker (5) is provided in the acquisition range of each individual microphone (1-4), which the loudspeaker is connected to with a signal processor (11), to which is connected to each individual microphone (1-4) is also connected; [3] in that the signal processor (11)

emitting emits via the loudspeaker (5), a predetermined periodic noise signal via the loudspeaker via the loudspeaker; that the signal processor (11) evaluates

evaluating the response signals that subsequently come from each individual microphone (1-4) and/or from each digital filter; and compares them

comparing the response signals with model signals which are stored in the signal processor (11), or externally, and which correspond to properly operating individual microphones (1-4) or properly operating digital filters via the loudspeaker; and that the signal-processor (11), as a function of the deviation of the response signals from the model signals, changes

changing the value of individual filter coefficients or of all the filter coefficients of the filter coefficient set as a function of the deviation of the response signals from the model signals;[7] and repeats

repeating the test until the response signals are in the range of the model signals.

6. (Currently Amended) <u>A method Method according to Claim 5, characterized in that, further comprising:</u>

interrupting the test after a predetermined number of test repetitions have been carried out;[-] the test is interrupted and

displaying and/or storing an error message is displayed and/or stored.